

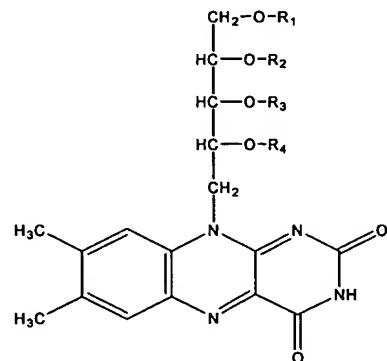
CLAIMS

1. A compound of riboflavin derivatives, comprising all ester derivatives of riboflavin or hydroxyl group of ribitol on the lateral chain of sulforiboflavin except the tetra-stearate ester, tetra-palmitate ester, tri-laurate ester, tetra-decanoate ester, tetra-butyrate ester, tetra-acetate ester, tetra-tryptophan ester, phosphate ester of riboflavin.

2. The compound according to claim 1, wherein the riboflavin derivatives are the mono-, di-, tri- or tetra-esters of the compound of the following Formula (I),

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Formula (I)

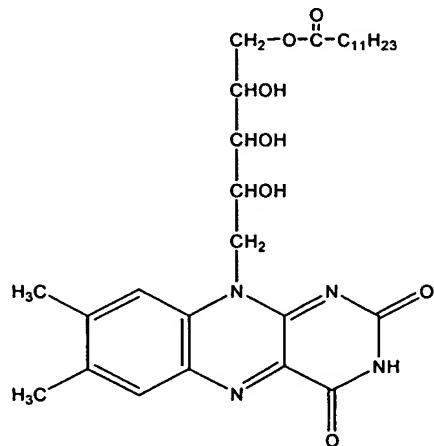


in which the groups of R₁, R₂, R₃, R₄ may be different, identical or independent to each other.

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3. The compound according to claim 2, wherein the lauric acid monoester of the following Formula (II) is formed by R1 being a lauroyl group, R2, R3 and R4 all being hydrogens of Formula (II)

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Formula (II)

4. A synthesis process of preparation of the compound of claim 3, wherein lauroyl chloride is added drop wisely to riboflavin or sulphoriboflavin suspending
5 in polar organic solvent.

5. The process according to claim 4, wherein the polar organic solvent suspending riboflavin or sulphoriboflavin is pyridine or N, N-dimethylformamide.

10 6. A w/o suspending preparation using the compound of claim 3 as a main active constituent being mainly composed of ethyl oleate and the compound in Formula II.

15 7. The w/o suspending preparation according to claim 6, wherein camellia oil is added and the ratio of weight and volume of each ingredient are as follows:

Compound II	50–150 mg
Ethyl oleate	0.1–1 ml
Camellia oil	0-1 ml

20 8. The w/o suspending preparation according to claim 7, wherein the preferable ratio of weight and volume of each ingredient are as follows:

Compound of Formula II	150 mg
Ethyl oleate	0.5 ml
Camellia oil	0.5 ml

25 9. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for arriboflaviosis.

30 10. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for digestive tract catarrh caused by bone marrow transportation, leukemia or chemotherapy .

11. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for persistent oral ulcer.

35 12. An application of the compound of any one of claims 1 to 3, wherein the compound can be used in preparing the medicament for coronary heart disease, hypertension syndrome, arthritis and burn wound.